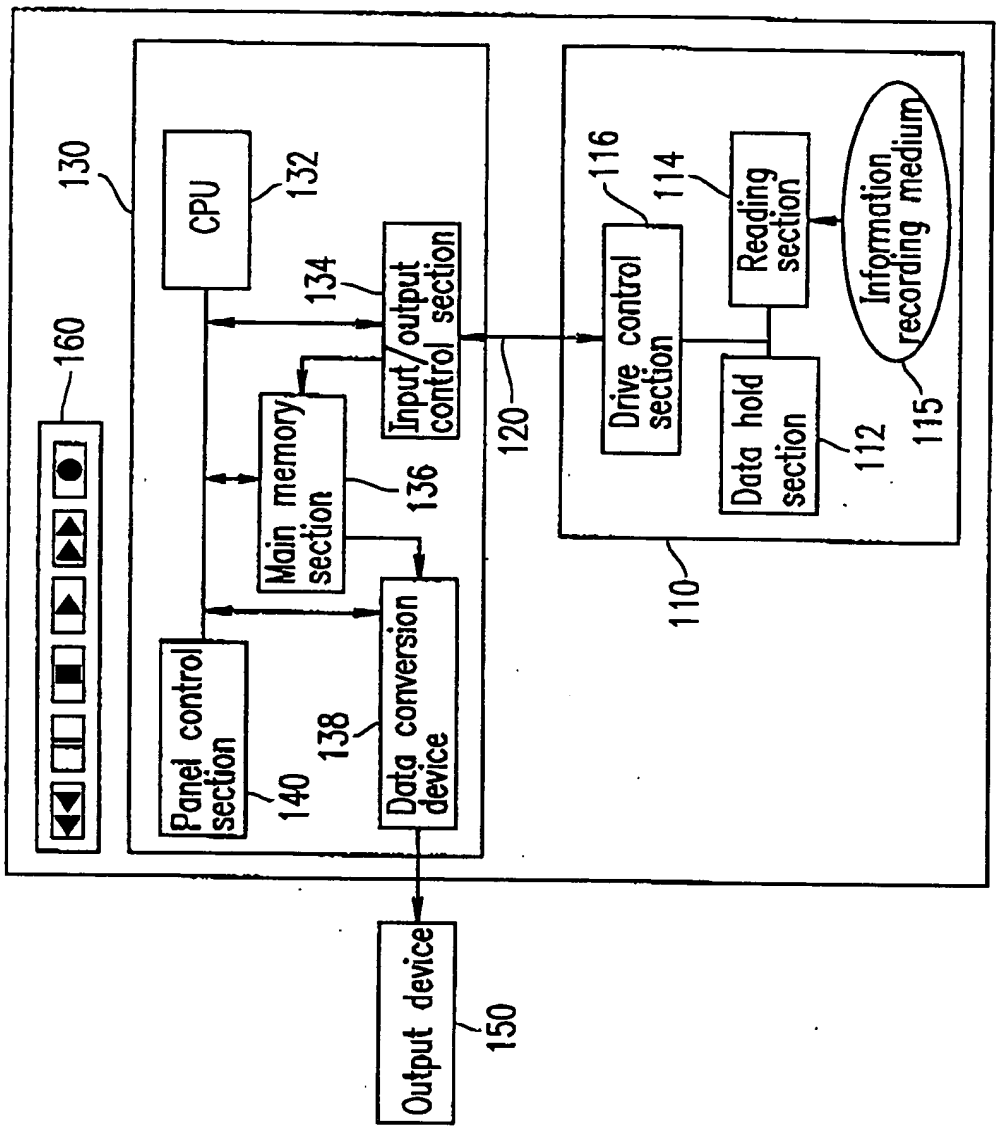
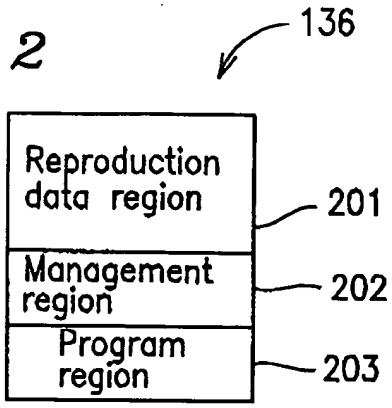

100
130
160
CPU
132
134
Input/output control section
Main memory section
136
Panel control section
140
138
Data conversion device
120
116
Drive control section
114
Reading section
Information recording medium
Data hold section
112
115
110
Output device
150

FIG. 1

FIG. 2


136
Reproduction data region
201
Management region
202
Program region
203

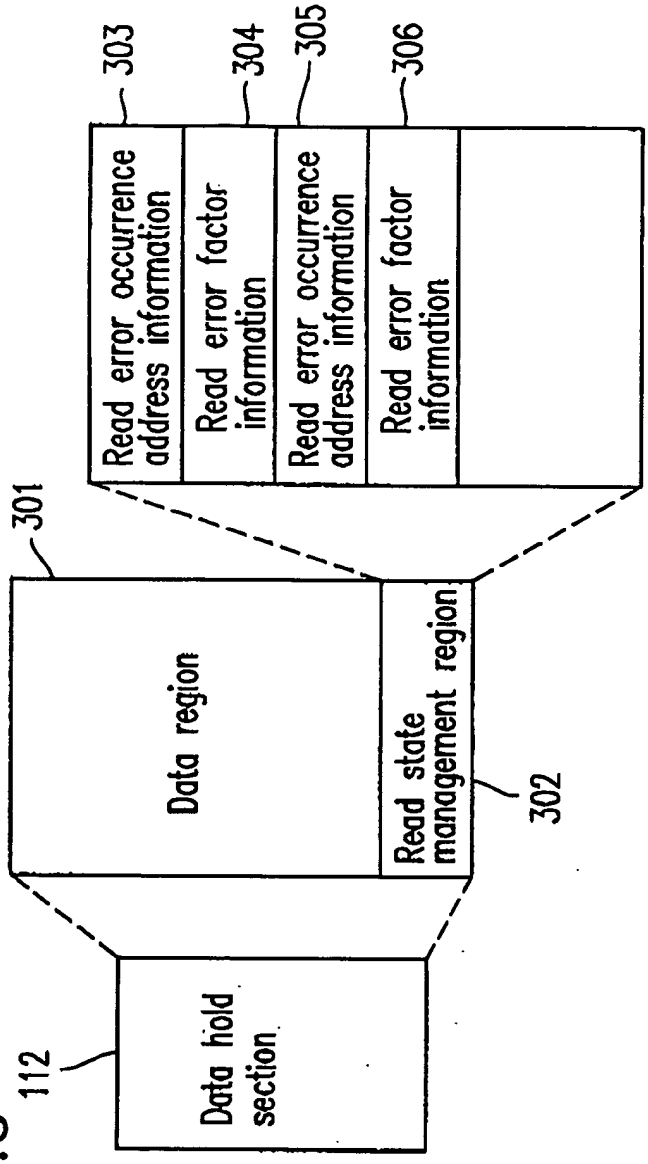

303
304
305
306
Read error occurrence address information
Read error factor information
Read error occurrence address information
Read error factor information
301
Data region
Read state management region
302
112
Data hold section

FIG.3

FIG. 4

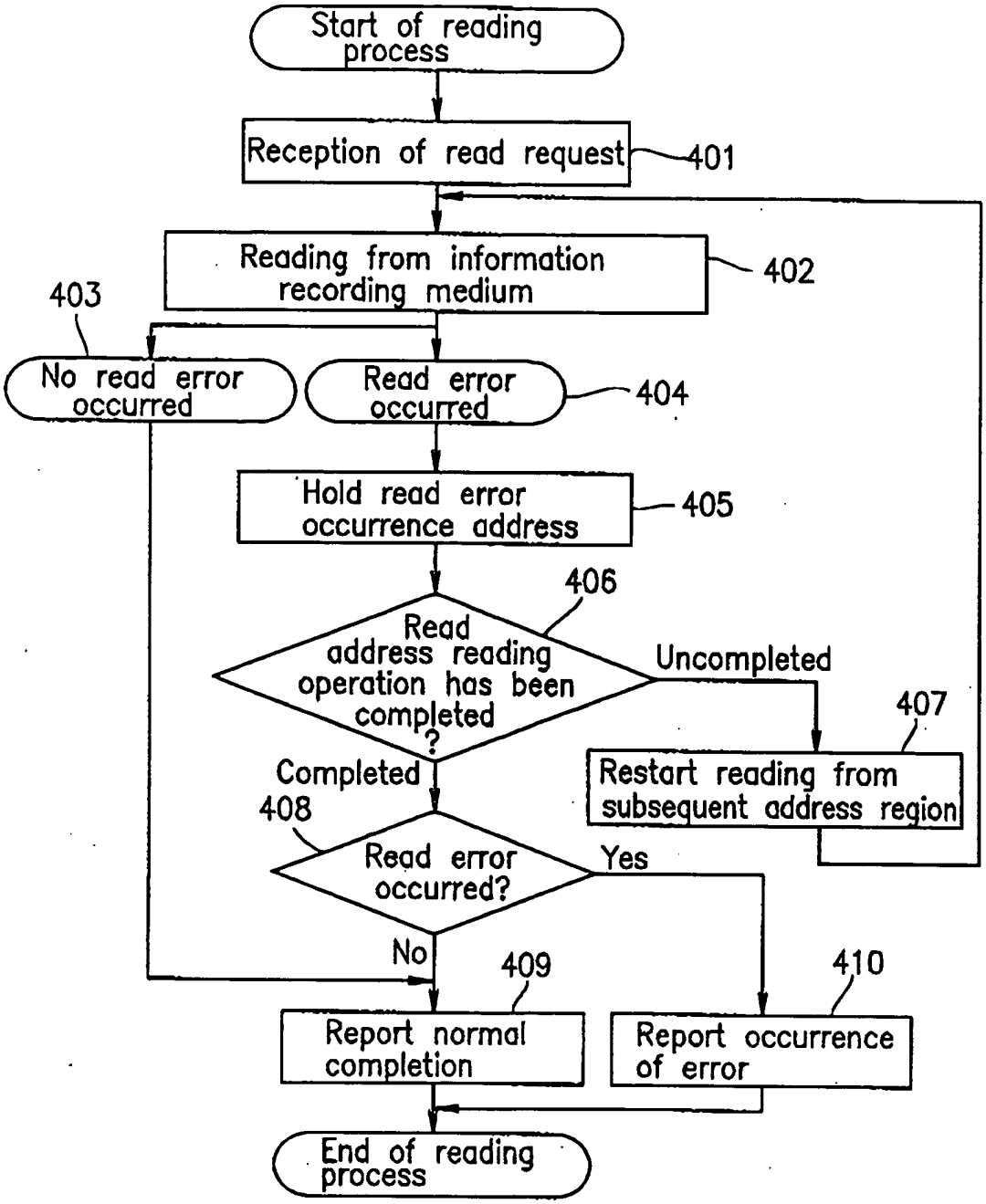

Start of reading process
Reception of read request
401
Reading from information recording medium
402
403
No read error occurred
Read error occurred
404
Hold read error occurrence address
405
406
Read address reading operation has been completed ?
Uncompleted
407
Restart reading from subsequent address region
Completed
408
Read error occurred?
Yes
No
409
410
Report normal completion
Report occurrence of error
End of reading process

FIG. 5A

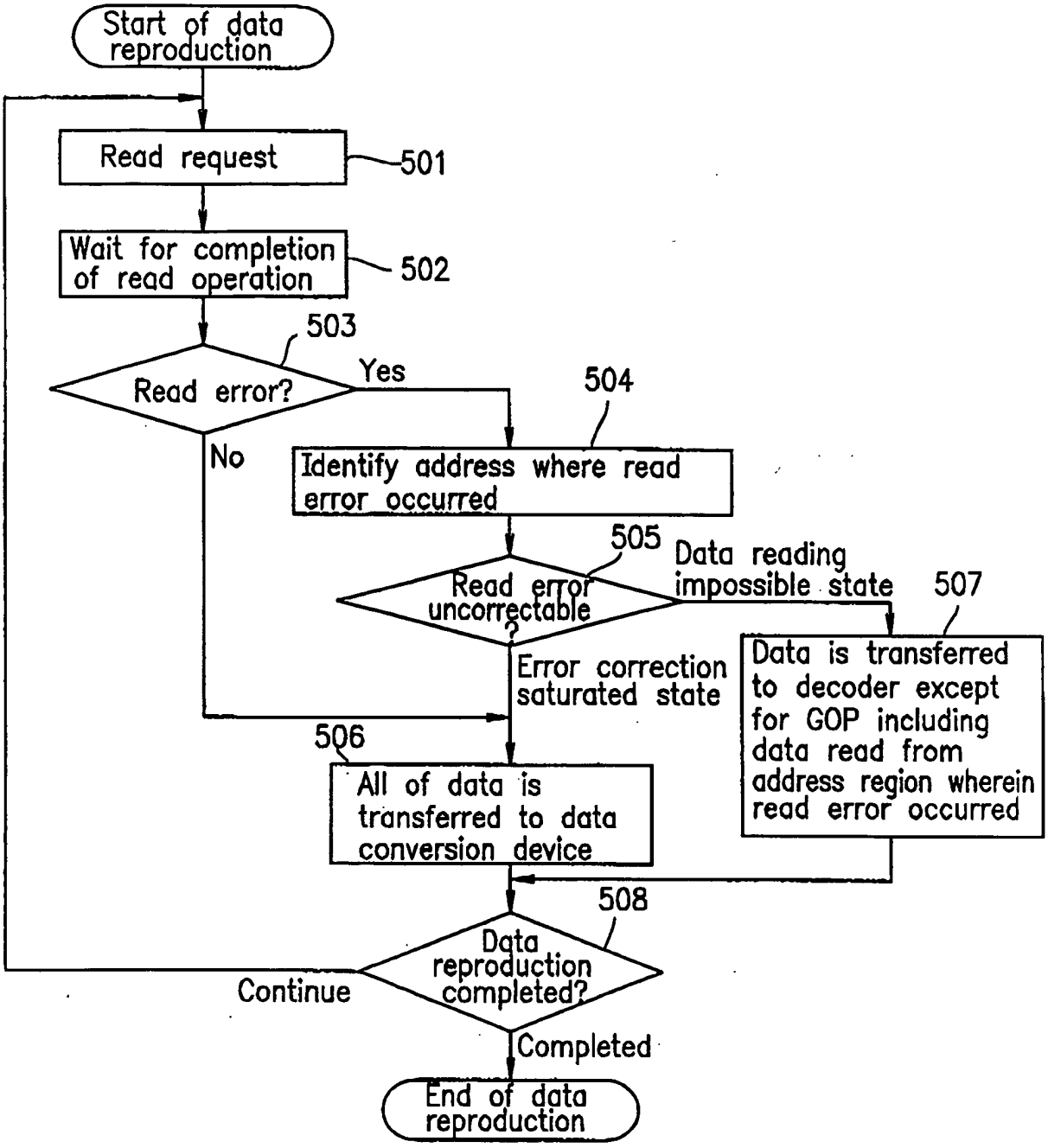

Start of data reproduction
Read request
501
Wait for completion of read operation
502
503
Read error?
Yes
504
No
Identify address where read error occurred
505
Read error uncorrectable?
Data reading impossible state
507
Data is transferred to decoder except for GOP including data read from address region wherein read error occurred
Error correction saturated state
506
All of data is transferred to data conversion device
508
Data reproduction completed?
Continue
Completed
End of data reproduction

FIG. 5B

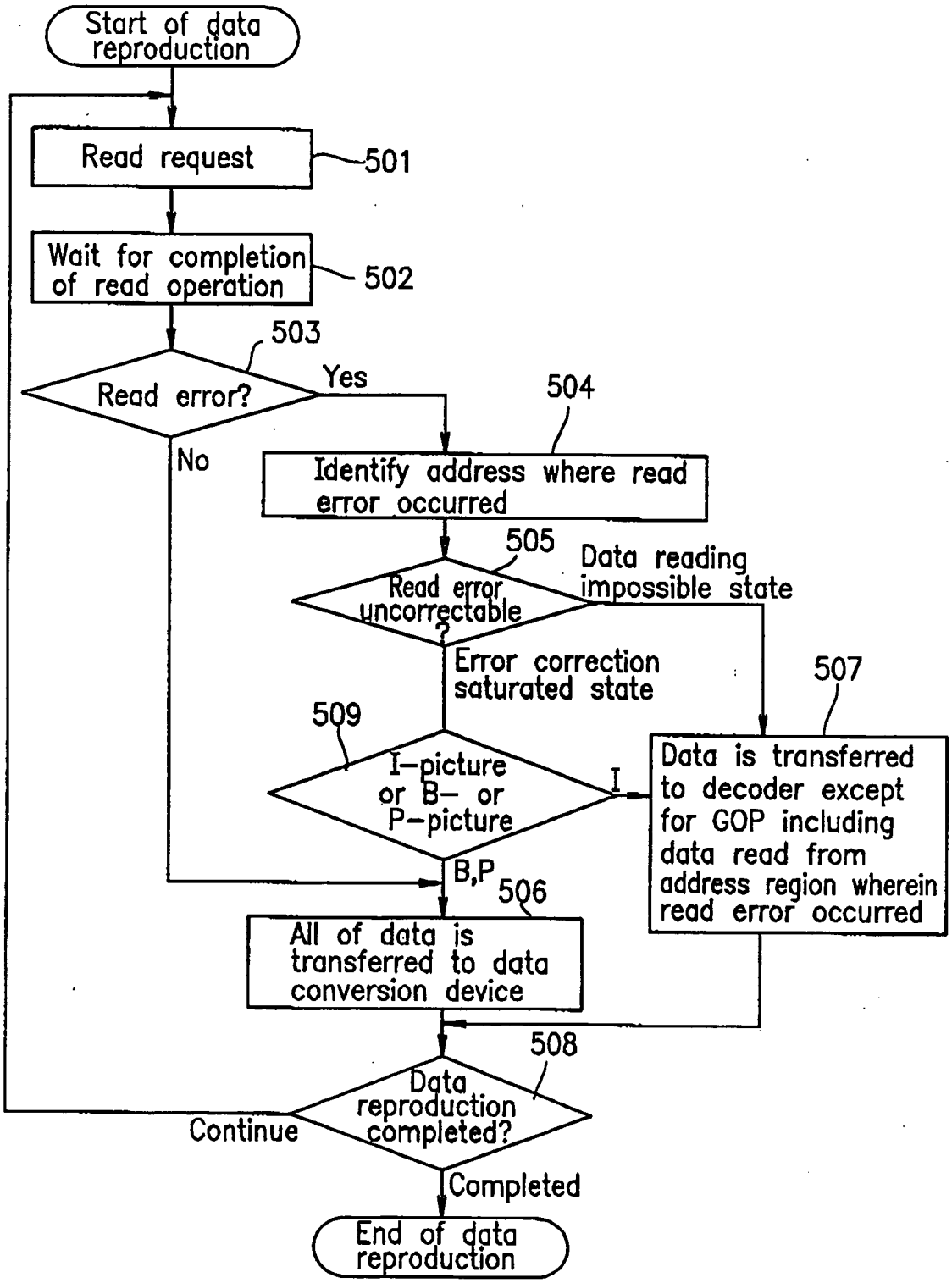

Start of data reproduction
Read request
501
Wait for completion of read operation
502
503
Read error?
Yes
No
504
Identify address where read error occurred
505
Read error uncorrectable?
Data reading impossible state
Error correction saturated state
507
509
I-picture or B- or P-picture
I
Data is transferred to decoder except for GOP including data read from address region wherein read error occurred
B,P
506
All of data is transferred to data conversion device
508
Data reproduction completed?
Continue
Completed
End of data reproduction

FIG. 5C

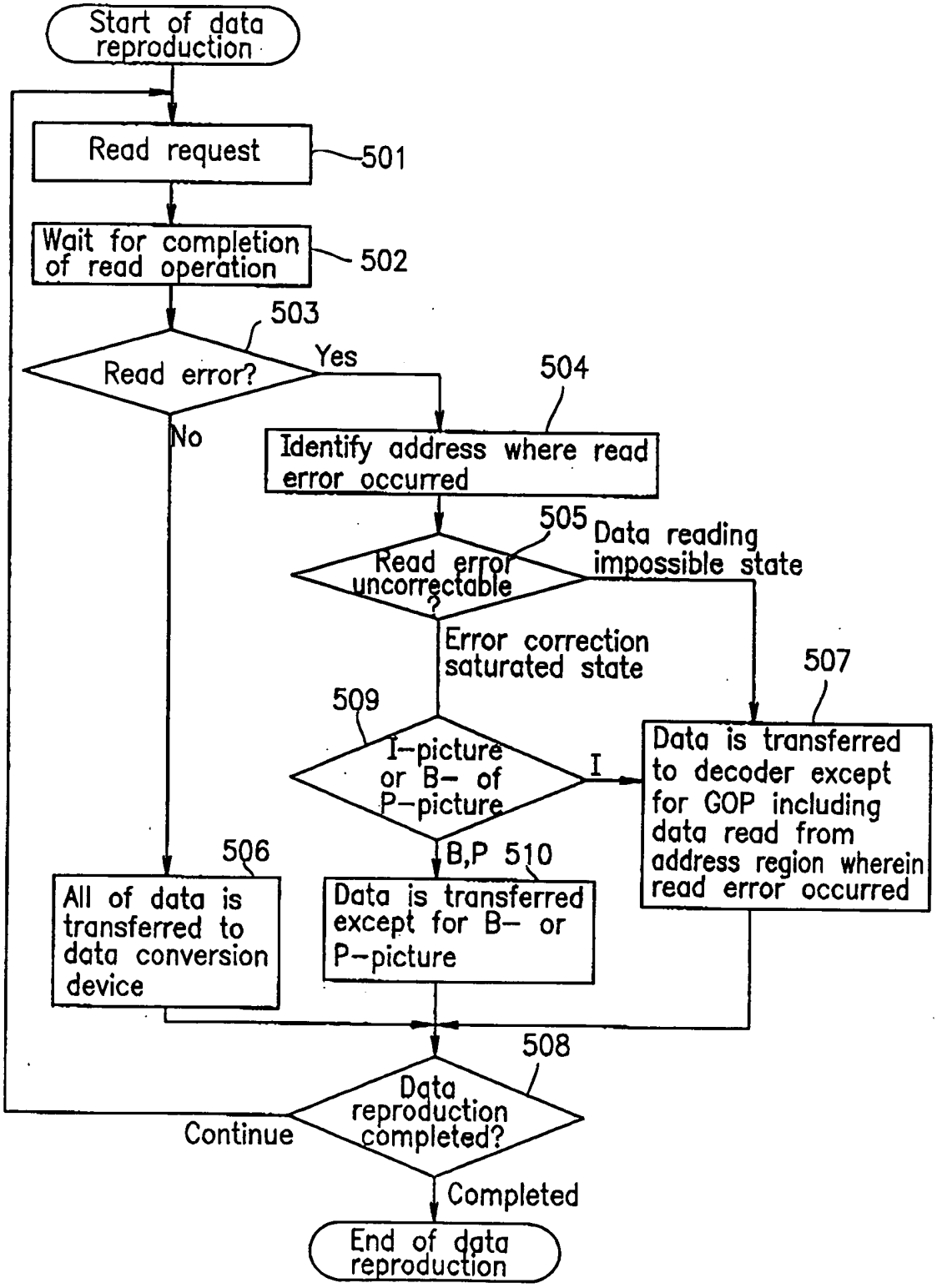

Start of data reproduction
Read request
501
Wait for completion of read operation
502
503
Read error?
Yes
No
504
Identify address where read error occurred
505
Read error uncorrectable?
Data reading impossible state
Error correction saturated state
507
509
I-picture or B- of P-picture
I
Data is transferred to decoder except for GOP including data read from address region wherein read error occurred
506
All of data is transferred to data conversion device
B,P
510
Data is transferred except for B- or P-picture
508
Data reproduction completed?
Continue
Completed
End of data reproduction

FIG. 6

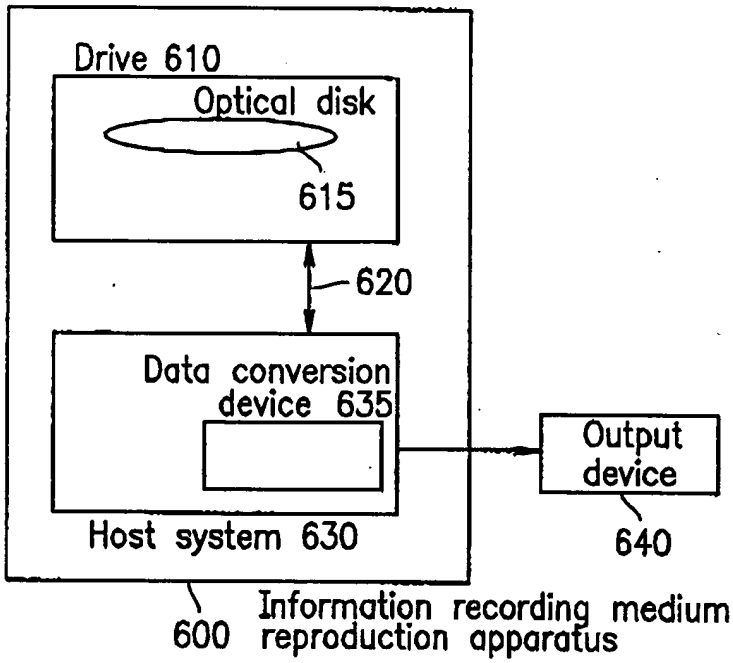

Drive 610
Optical disk
615
620
Data conversion device 635
Host system 630
Output device
640
600
Information recording medium reproduction apparatus

FIG. 7

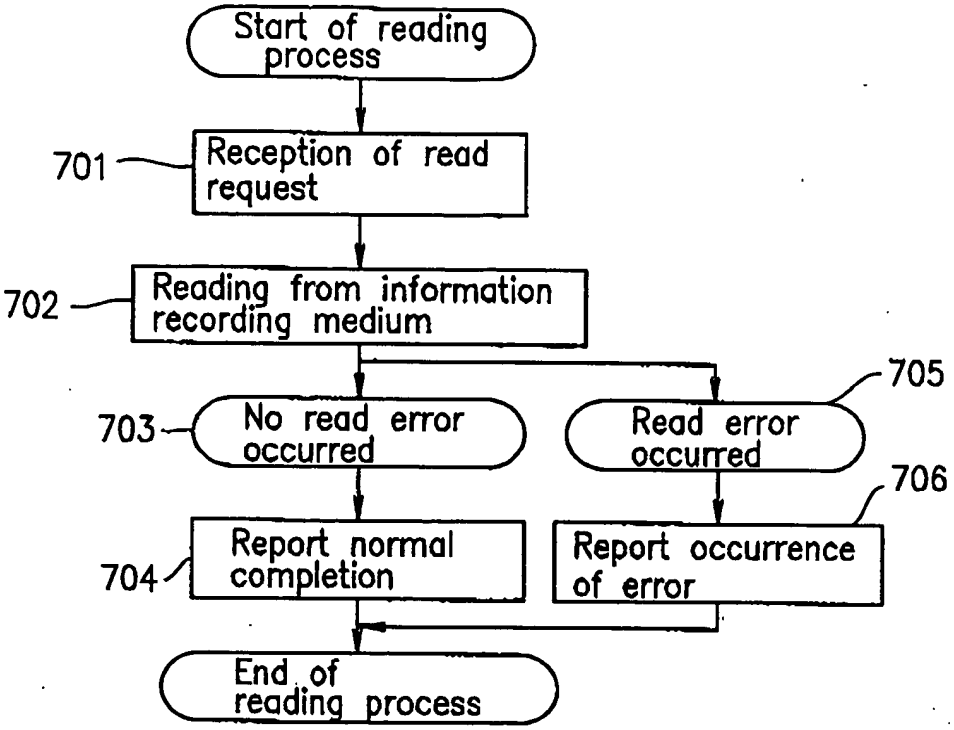

Start of reading process
701
Reception of read request
702
Reading from information recording medium
703
No read error occurred
705
Read error occurred
704
Report normal completion
706
Report occurrence of error
End of reading process

FIG. 8

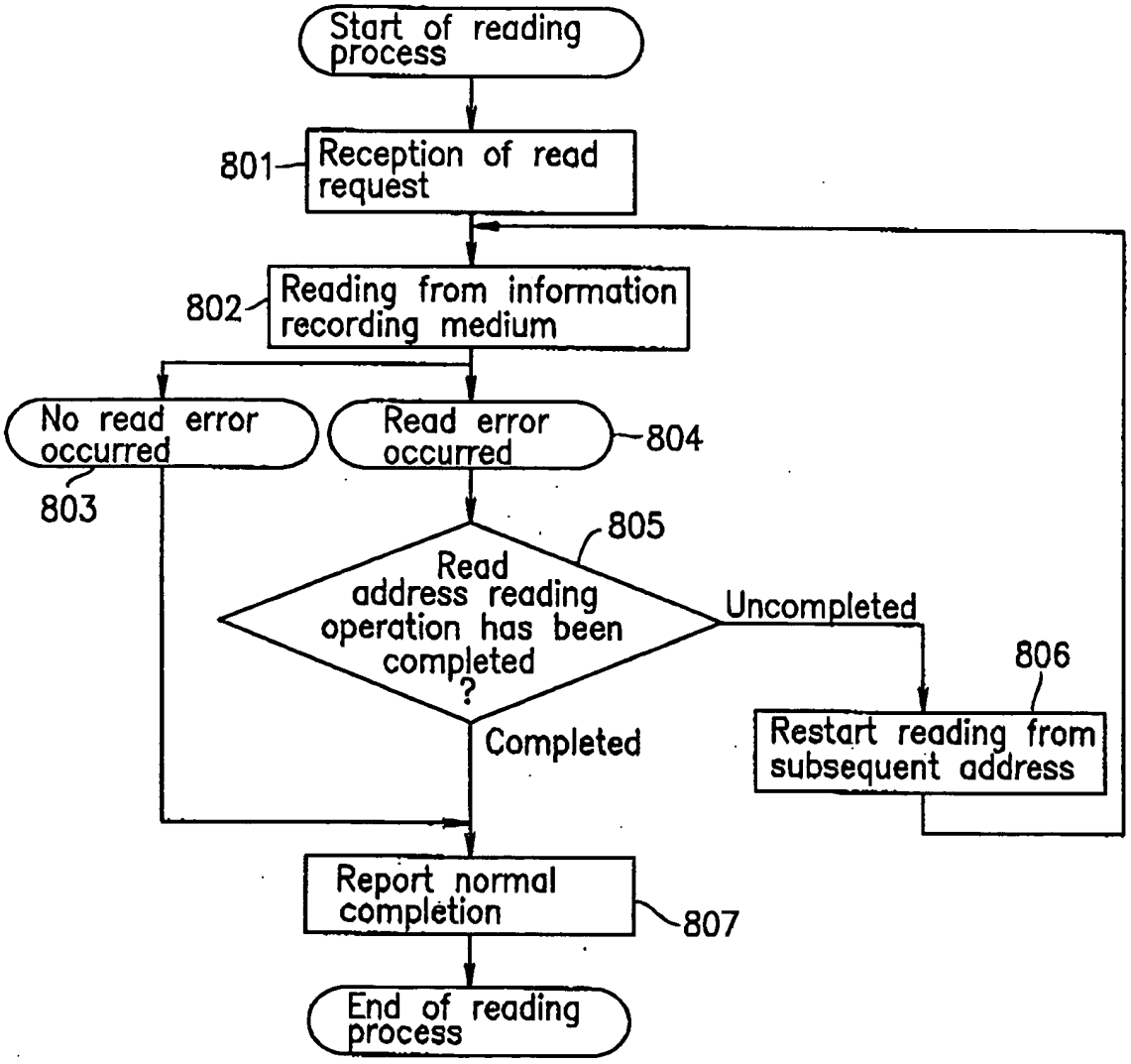
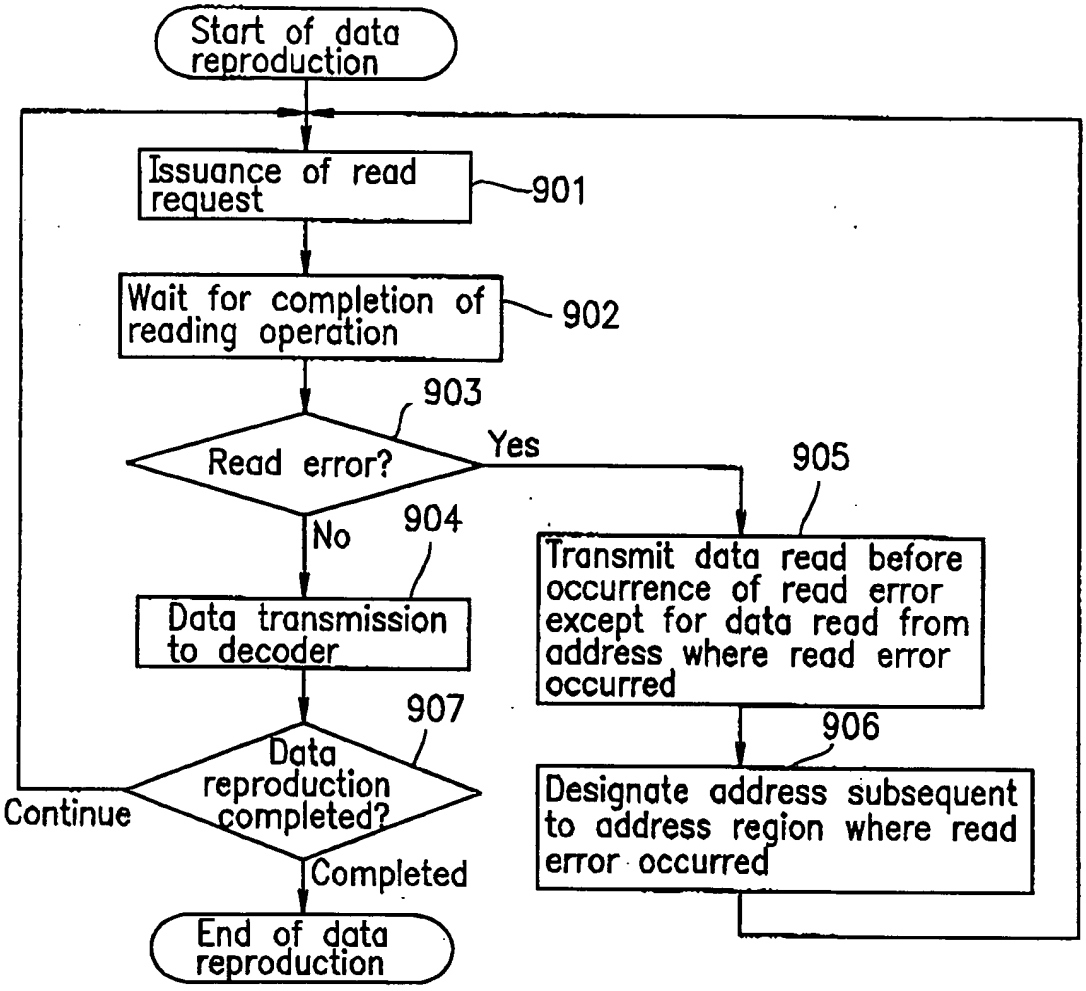

Start of reading process
801
Reception of read request
802
Reading from information recording medium
No read error occurred
803
Read error occurred
804
805
Read address reading operation has been completed ?
Uncompleted
806
Restart reading from subsequent address
Completed
Report normal completion
807
End of reading process

FIG. 9


Start of data reproduction
Issuance of read request
901
Wait for completion of reading operation
902
903
Read error?
Yes
905
No
904
Transmit data read before occurrence of read error except for data read from address where read error occurred
Data transmission to decoder
907
906
Data reproduction completed?
Designate address subsequent to address region where read error occurred
Continue
Completed
End of data reproduction